AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1-12. (Canceled)

13. (Currently amended) A lighting arrangement for providing a predetermined illumination on an object illuminated by a varying ambient light, comprising:

a light source disposed in optical proximity to the object for illuminating the object with a supplied light of a certain intensity in response to a light control signal;

an illumination sensor disposed in optical proximity to the object for detecting the total illumination resulting from both the supplied light and the ambient light, the illumination sensor producing an illumination signal proportional to the total illumination; and

a light controller electrically connected to the illumination sensor and the light source, the light controller having a negative feedback circuit for producing the light control signal in response to the illumination signal so as to maintain the predetermined illumination on the object, the light controller further including an input configured to receive from an external device an illumination command specifying the predetermined illumination.

14-16. (Canceled)

17. (Original) The lighting arrangement of claim 14, further comprising:

a housing for mounting the light source and the light sensor, wherein the light sensor is a reflective sensor.

18. (Currently amended) A method for illuminating an object with a predetermined illumination, comprising:

receiving via a programming interface an illumination command that specifies[[ying]] the predetermined illumination;

applying light of an initial intensity level derived from the predetermined illumination to the object;

sensing a total illumination on the object resulting from applying the initial intensity level light;

determining a corrected intensity level from the initial intensity level and the total illumination; and

reapplying light of the corrected intensity level so as to illuminate the object with the predetermined illumination.

19. (Original) The method of claim 18, wherein the sensing includes sensing an ambient light illumination on the object.

20. (Original) The method of claim 19, wherein the sensing, determining, and reapplying are repeated at a certain interval so as to maintain the predetermined illumination regardless of fluctuations in the ambient light illumination.

21. (New) The lighting arrangement of claim 13, wherein the illumination command includes at least one light source parameter selected from the group consisting of light intensity, light color, and light directionality.

22. (New) The lighting arrangement of claim 13, wherein the light controller is configured to receive the illumination command from the external device via at least one of an RS-232 port, a USB port, or a Centronics interface.

23. (New) The lighting arrangement of claim 13, wherein the light controller includes a special effect input configured to receive a special effect signal and modify the supplied light in response thereto.

24. (New) The lighting arrangement of claim 23, wherein the special effect signal is selected from the group consisting of a flash signal, a color change signal, and a ramp signal.

25. (New) The lighting arrangement of claim 13, wherein the light controller includes a microcomputer configured to control the light source in accordance with the illumination command and the illumination signal.